

Transportation Improvement Program (TIP) Highway Project Application Form

Project TIP Listing Information and Description

General Instructions: This form is to be used to request federal Surface Transportation Program (MAG STP) and Congestion Mitigation Air Quality (CMAQ) funding available through the Maricopa Association of Governments for highway projects to be included in the FY 2003-2007 MAG Transportation Improvement Program. Currently funding is available only for FY 2007.

Highway projects include all freeway, street, Intelligent Transportation Systems (ITS), bicycle, pedestrian and non-transit projects. Requests for funding for transit projects should use the transit application form.

This highway application form includes:

- Part A: Project Description and TIP Listing Information. In Part A, the applicant provides the minimum information necessary to list a project in the TIP as required by applicable federal regulations and general descriptive information necessary for MAG staff and technical committees to evaluate the project. **All project requests must include Part A.**
- Part B: Project Congestion Management System (CMS) and Congestion Mitigation Air Quality (CMAQ) Data: In Part B, the applicant provides data necessary for MAG staff to calculate CMS and CMAQ scores for projects. This data varies for each mode of transportation, so separate sheets are provided for freeway, street, Intelligent Transportation System (ITS), bicycle and pedestrian projects. The applicant needs to complete only the sheet that is applicable for his project. If the project does not fall into one of the modal categories previously cited, the applicant does not need to complete Part B.
- Part C: MAG Technical Committee Additional Information. The MAG Regional Bicycle Committee and the MAG Pedestrian Working Group require applicants to provide additional project information. **Only bicycle and pedestrian projects requests should complete Part C.**

Deadlines and Transmittal Instructions: This form should be completed and returned to MAG Offices by **5:00 p.m. September 12, 2001**. The mailing address and FAX number for the MAG offices is:

Maricopa Association of Governments
302 North 1 st Avenue, Suite 300
Phoenix, Arizona 85003
FAX Number: (602) 254-6490

If you wish to e-mail this information, please send it to state@mag.maricopa.gov.

Electronic Download Information: As of July 23, 2001, a downloadable version of these forms in Microsoft Word is available on the MAG website at www.mag.maricopa.gov. If requested, MAG staff will also provide these forms via e-mail or FAX.

MAG Contact Information: If you have any questions, please contact Stephen Tate or Paul Ward at (602) 254-6300 or at state@mag.maricopa.gov.

Agency Contact Information: Please complete the following contact information for each project, so that we may contact you should we need additional information.

1. Name of the Agency Contact for the Project Request:	2. Telephone:
3. E-mail	4. Date:

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Transportation Improvement Program (TIP) Highway Project Application Form

Part A: Project TIP Listing Information and Description

General Instructions: This form is to be used to request federal Surface Transportation Program (MAG STP) and Congestion Mitigation Air Quality (CMAQ) funding available through the Maricopa Association of Governments (MAG) for highway projects to be included in the FY 2003-2007 MAG Transportation Improvement Program (TIP). Currently funding is available only for FY 2007.

Highway projects include all freeway, street, Intelligent Transportation Systems (ITS), bicycle, pedestrian and non-transit projects. Requests for funding for transit projects should use the transit application form. All applicants should complete both the contact information on the cover page of the form and Part A of the form. Applicants requesting funding for freeway, street, ITS, bicycle and pedestrian projects should also complete Part B of the form. Part C of the form is required only for pedestrian and bicycle projects.

Section One: TIP Listing Information.

Please complete the following information for all projects. If the project is accepted for MAG federal funding, the project information provided in this section will appear in the TIP as provided by the applicant

1. Sponsoring Agency Name:	2. Year: <i>Only 2007 is Available for Funding</i>
3. Project Location (The project limits if applicable):	
4. Type of Work (Description of the work to be performed):	
5. Amount of Federal Funds Requested (This amount cannot exceed 94.3 percent of the total cost of the project.):	6. Type of Federal Funds Requested (Please check <u>only one</u> box.): <div style="display: flex; justify-content: space-around;"> <input type="checkbox"/> MAG STP <input type="checkbox"/> CMAQ </div>
7. Amount of Local Funds to be Used (This amount cannot be less than 5.7 percent of the total cost of the project.):	8. Type of Local Funds to be Used: (Please check <u>only one</u> box.): <div style="display: flex; justify-content: space-around;"> <div> <input type="checkbox"/> HURF <input type="checkbox"/> General Fund <input type="checkbox"/> Sales Tax <input type="checkbox"/> Property Tax </div> <div> <input type="checkbox"/> Impact Fees <input type="checkbox"/> Bond Proceeds <input type="checkbox"/> Private <input type="checkbox"/> Other, Please specify: <div style="border-bottom: 1px solid black; width: 150px; margin-top: 5px;"></div> </div> </div>
9. Total Cost of the Project: (This amount must equal the sum of the federal and local amounts requested):	

Transportation Improvement Program (TIP) Highway Project Application Form

Part A: Project TIP Listing Information and Description

Section Two: Project Description

Please complete the following information for all projects. The information provided is necessary for MAG staff and modal technical advisory committees (TACs) to understand and evaluate the federal funding request. Information supplied under items 1, 2 and 3 will be provided to the TACs as part of the evaluation process.

1. Please attach a map, drawing, photograph, plans or other graphic showing the location of the project. If no graphic is available or it is not feasible to provide one, please indicate this fact in the space below.
2. Please attach a description of the project. This description should be no longer than 150 words and should include a description of the work to be performed, whether the project includes design, right-of-way acquisition and construction phases, identification of any major structures (e.g. bridges) to be constructed and the relationship of the project to other programmed and planned projects in the TIP, regional plan, local capital improvement programs or local plans.
3. Please attach an explanation of why the project should receive MAG federal funding. This explanation should be no longer than 150 words and should describe the problem or goal the project is intended to address. If CMAQ funding is requested the explanation should indicate what air quality benefits are to be achieved by the project. The explanation could also describe the project's expected congestion mitigation or reduction impacts, service to underserved communities, safety benefits, usage levels, advancement of regional or multi-jurisdictional goals, improvement in network continuity and accessibility and other benefits.
5. Please provide a cost breakdown for the project including quantities and unit costs used. This information is requested only for the purpose of aiding MAG staff in determining the eligibility of the project for the federal funding requested and for identifying potential problems with the cost estimate.
6. Please provide a schedule for obligating the project. Generally a construction project will require 18 months to design and obtain environmental, right-of-way and utilities clearance necessary to obligate the project. A design project will generally require 3 to 6 months to obligate. Sample schedules for a variety of different project types will be provided to agencies through the TACs and at the applications workshop on July 31, 2001.

Transportation Improvement Program (TIP) Highway Project Application Form

Part B: CMS and CMAQ Data for FREEWAY Projects

General Instructions: All applicants must complete the cover sheet and Part A of the application form for federal Surface Transportation Program (MAG STP) and Congestion Mitigation Air Quality (CMAQ) funding available through MAG.

In Part B, the applicant provides data necessary for MAG staff to calculate Congestion Management System (CMS) and CMAQ scores for projects. This data varies for each mode of transportation, so separate sheets are provided for freeway, street, Intelligent Transportation System (ITS), bicycle and pedestrian projects. These sheets are identified as:

- Part B: CMS and CMAQ Data for FREEWAY Projects
- Part B: CMS and CMAQ Data for STREET Projects
- Part B: CMS and CMAQ Data for ITS Projects
- Part B: CMS and CMAQ Data for BICYCLE Projects
- Part B: CMS and CMAQ Data for PEDESTRIAN Projects

The applicant should complete **only one** Part B sheet for the project. If the project requested is not one of the modes cited above, the applicant does not need to complete Part B or Part C of the form.

This particular sheet should only be completed for freeway projects. Applicants do not need to complete Part C of the form for freeway projects.

Section One: Congestion Management System and CMAQ Data

Please complete the following information for all freeway projects. The information used in this section is used to calculate CMS scores.

1. Current Average Daily Traffic (ADT) on the Facility or the Nearest Parallel Facility of a Similar Type:	2. Name of the Roadway Section Used for the ADT Estimate:
3. Number of Through Lanes Currently on the Facility Prior to Project Completion (Do <u>not</u> include auxiliary lanes):	4. Number of Through Lanes on the Facility After the Project is Completed (Do <u>not</u> include auxiliary lanes):
5. Length of the Facility (in miles):	6. Township Coordinate of the Midpoint of the Facility:
7. Range Coordinate of the Midpoint of the Facility:	8. Section Coordinate of the Midpoint of the Facility:
9. Network Continuity Impacts: (Please check <u>only one</u> box.): <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <input type="checkbox"/> Removes Bottleneck <input type="checkbox"/> Closes Gap <input type="checkbox"/> Extends Existing Facility <input type="checkbox"/> None </div>	
10. Other Project Information: (Check as many as are applicable): <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <input type="checkbox"/> Includes Landscaping Improvements <input type="checkbox"/> The Project Conforms to Local Land Use Plans </div> <div> <input type="checkbox"/> Includes FMS Improvements <input type="checkbox"/> Includes HOV Improvements </div> </div>	

Transportation Improvement Program (TIP) Highway Project Application Form
Part B: CMS and CMAQ Data for FREEWAY Projects

11. Management System (Please check only one box)

☐ Congestion Management System (CMS)

☐ Safety Management System (SMS)

☐ Bridge Management System (BMS)

☐ Intermodal Management System (IMS)

☐ Pavement Management System (PMS)

☐ Other

☐ Public Transportation Management System (PTMS)

12. Please identify the priority the agency places on this project. If for example, the agency is submitting three requests for freeway projects and this is the agency's highest priority, then a "1" should be entered. Each priority entered should be unique – e.g. no two requests for freeway projects should have the same priority.

Transportation Improvement Program (TIP) Highway Project Application Form

Part B: CMS and CMAQ Data for STREET Projects

General Instructions: All applicants must complete the cover sheet and Part A of the application form for federal Surface Transportation Program (MAG STP) and Congestion Mitigation Air Quality (CMAQ) funding available through MAG.

In Part B, the applicant provides data necessary for MAG staff to calculate Congestion Management System (CMS) and CMAQ scores for projects. This data varies for each mode of transportation, so separate sheets are provided for freeway, street, Intelligent Transportation System (ITS), bicycle and pedestrian projects. These sheets are identified as:

- Part B: CMS and CMAQ Data for FREEWAY Projects
- Part B: CMS and CMAQ Data for STREET Projects
- Part B: CMS and CMAQ Data for ITS Projects
- Part B: CMS and CMAQ Data for BICYCLE Projects
- Part B: CMS and CMAQ Data for PEDESTRIAN Projects

The applicant should complete **only one** Part B sheet for the project. If the project requested is not one of the modes cited above, the applicant does not need to complete Part B or Part C of the form

This particular sheet should only be completed for street projects. Applicants do not need to complete Part C of the form for street projects.

Section One: Congestion Management System and CMAQ Data

Please complete the following information for all street projects. The information used in this section is used to calculate CMS scores.

1. Current Average Daily Traffic (ADT) on the Facility or the Nearest Parallel Facility of a Similar Type:	3. Name of the Roadway Section Used for the ADT Estimate:	4. Type of Facility to be Improved (Check only <u>one</u> box): <input type="checkbox"/> Arterial > 4 legs (e.g. Grand) <input type="checkbox"/> Arterial Street <input type="checkbox"/> Collector Street <input type="checkbox"/> Other
4. Number of Through Lanes Currently on the Facility Prior to Project Completion (Do <u>not</u> include right, left or center turn lanes):	5. Number of Through Lanes on the Facility After the Project is Completed (Do <u>not</u> include auxiliary lanes):	6. Length of the Facility (in miles):
7. Township Coordinate of the Midpoint of the Facility:	8. Range Coordinate of the Midpoint of the Facility:	9. Section Coordinate of the Midpoint of the Facility:
10. Network Continuity Impacts: (Please check <u>only one</u> box.): <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <input type="checkbox"/> Removes Bottleneck <input type="checkbox"/> Closes Gap <input type="checkbox"/> Extends Existing Facility <input type="checkbox"/> None </div>		

Transportation Improvement Program (TIP) Highway Project Application Form

Part B: CMS and CMAQ Data for STREET Projects

11. Dust Control Features (Check as many as are applicable.):

- ☐ Paves an Existing Dirt Road
- ☐ Paves an Existing Dirt Shoulder
- ☐ Paves Access Points (e.g. driveways, access road entrances) --- If checked how many access points are to be paved? ____
- ☐ Not Applicable

12. Intersection Information for CMAQ Funding (This box is for projects that are submitted for CMAQ funding and involve major intersection improvements – e.g. addition of left or right turn lanes. Please skip this box if any of these conditions does not apply):

- a. Submit a diagram of the existing intersection showing the existing lane configuration.
- b. Submit a diagram of the intersection showing the planned lane configuration.
- c. Enter the expected weekday reduction in vehicle hours of delay and attach modeling output. If no modeling was performed, **DO NOT** enter a value in the space provided as MAG Staff will develop an estimate based on the 1998 MAG Congestion Study. ____

13. Bicycle Improvements (Check only one):

- ☐ Adds Striped Bicycle Lane
- ☐ Adds Multi-Use Path
- ☐ Adds Bicycle Grade Separation
- ☐ Adds Other Bicycle Improvement
- ☐ Not Applicable

14. Is the bicycle improvement on an adopted local or regional bicycle plan? If yes, please, identify the plan:

15. Other Project Information: (Check as many as are applicable):

- | | |
|---|--|
| <input type="checkbox"/> Includes Landscaping Improvements
<input type="checkbox"/> Increases Access Control
<input type="checkbox"/> Adds Shoulders Where None Exist
<input type="checkbox"/> Adds Bus Pullouts Where None Exist
<input type="checkbox"/> Adds Pedestrian Facilities Where Non Exist | <input type="checkbox"/> Includes Traffic Signal Improvements for a Single Agency
<input type="checkbox"/> Includes Traffic Signal Improvements that Apply to More than One Agency
<input type="checkbox"/> The Project Conforms to Local Land Use Plans
<input type="checkbox"/> The Facility is on the MAG Roads of Regional Significance Network |
|---|--|

16. Management System (Please check only one box)

- | | |
|--|--|
| <input type="checkbox"/> Congestion Management System (CMS)
<input type="checkbox"/> Bridge Management System (BMS)
<input type="checkbox"/> Pavement Management System (PMS)
<input type="checkbox"/> Public Transportation Management System (PTMS) | <input type="checkbox"/> Safety Management System (SMS)
<input type="checkbox"/> Intermodal Management System (IMS)
<input type="checkbox"/> Other |
|--|--|

17. Please identify the priority the agency places on this project. If for example, the agency is submitting three requests for street projects and this is the agency's highest priority, then a "1" should be entered. Each priority entered should be unique – e.g. no two requests for street projects should have the same priority.

Transportation Improvement Program (TIP) Highway Project Application Form

Part B: CMS and CMAQ Data for ITS Projects

General Instructions: All applicants must complete the cover sheet and Part A of the application form for federal Surface Transportation Program (MAG STP) and Congestion Mitigation Air Quality (CMAQ) funding available through MAG.

In Part B, the applicant provides data necessary for MAG staff to calculate Congestion Management System (CMS) and CMAQ scores for projects. This data varies for each mode of transportation, so separate sheets are provided for freeway, street, Intelligent Transportation System (ITS), bicycle and pedestrian projects. These sheets are identified as:

- Part B: CMS and CMAQ Data for FREEWAY Projects
- Part B: CMS and CMAQ Data for STREET Projects
- Part B: CMS and CMAQ Data for ITS Projects
- Part B: CMS and CMAQ Data for BICYCLE Projects
- Part B: CMS and CMAQ Data for PEDESTRIAN Projects

The applicant should complete **only one** Part B sheet for the project. If the project requested is not one of the modes cited above, the applicant does not need to complete Part B or Part C of the form.

This particular sheet should only be completed for ITS projects. Applicants do not need to complete Part C of the form for ITS.

Section One: Congestion Management System and CMAQ Data

Please complete the following information for all street projects. The information used in this section is used to calculate CMS scores.

1. Current Average Daily Traffic (ADT) on the Facility or the Nearest Parallel Facility of a Similar Type:	5. Name of the Roadway Section Used for the ADT Estimate:	6. Type of Facility to be Improved (Check only <u>one</u> box): <input type="checkbox"/> Arterial > 4 legs (e.g. Grand) <input type="checkbox"/> Arterial Street <input type="checkbox"/> Collector Street <input type="checkbox"/> Other
4. Number of Through Lanes Currently on the Facility Prior to Project Completion (Do <u>not</u> include right, left or center turn lanes):	5. Number of Through Lanes on the Facility After the Project is Completed (Do <u>not</u> include auxiliary lanes):	6. Length of the Facility (in miles):
7. Township Coordinate of the Midpoint of the Facility:	8. Range Coordinate of the Midpoint of the Facility:	8. Section Coordinate of the Midpoint of the Facility:

Transportation Improvement Program (TIP) Highway Project Application Form

Part B: CMS and CMAQ Data for ITS Projects

10. If the project improves traffic signal coordination, please do the following:

a. Enter the pre-improvement (current) traffic speed of the traffic corridor:

b. In the Table Check the Box in The Row That Best Describes the Project (Check Only One Box):

Before (Pre-Improvement) Condition	After (Post Improvement) Condition	Expected Increase In Speed
<input type="checkbox"/> Non-interconnected, pre-timed signals with old timing plan	Advanced computer-based control	25.0 percent
<input type="checkbox"/> Interconnected, pre-timed signals with old timing plan	Advanced computer-based control	17.5 percent
<input type="checkbox"/> Non-interconnected signals with traffic-actuated controllers	Advanced computer-based control	16.0 percent
<input type="checkbox"/> Interconnected, pre-timed signals with actively managed timing	Advanced computer-based control	8.0 percent
<input type="checkbox"/> Interconnected, pre-timed signals with various forms of master control and various qualities of timing plans	Optimization of signal timing plans. No change in hardware	12.0 percent
<input type="checkbox"/> Non-interconnected, pre-timed signals with old timing plan	Optimization of Signal Timing Plans	7.5 percent

11. Other Project Information: (Check as many as are applicable):

- ☐ Includes Traffic Signal Improvements for a Single Agency
- ☐ Includes Traffic Signal Improvements that Apply to More than One Agency
- ☐ Includes FMS Improvements
- ☐ The Project Conforms to Local Land Use Plans
- ☐ The Facility is on the Adopted MAG Roads of Regional Significance Network

12. Management System (Please check only one box)

- | | |
|---|---|
| <input type="checkbox"/> Congestion Management System (CMS) | <input type="checkbox"/> Safety Management System (SMS) |
| <input type="checkbox"/> Bridge Management System (BMS) | <input type="checkbox"/> Intermodal Management System (IMS) |
| <input type="checkbox"/> Pavement Management System (PMS) | <input type="checkbox"/> Other |
| <input type="checkbox"/> Public Transportation Management System (PTMS) | |

13. Please identify the priority the agency places on this project. If for example, the agency is submitting three requests for ITS projects and this is the agency's highest priority, then a "1" should be entered. Each priority entered should be unique – e.g. no two requests for ITS projects should have the same priority.

Transportation Improvement Program (TIP) Highway Project Application Form

Part B: CMS and CMAQ Data for BICYCLE Projects

General Instructions: All applicants must complete the cover sheet and Part A of the application form for federal Surface Transportation Program (MAG STP) and Congestion Mitigation Air Quality (CMAQ) funding available through MAG.

In Part B, the applicant provides data necessary for MAG staff to calculate Congestion Management System (CMS) and CMAQ scores for projects. This data varies for each mode of transportation, so separate sheets are provided for freeway, street, Intelligent Transportation System (ITS), bicycle and pedestrian projects. These sheets are identified as:

- Part B: CMS and CMAQ Data for FREEWAY Projects
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- Part B: CMS and CMAQ Data for ITS Projects
- Part B: CMS and CMAQ Data for BICYCLE Projects
- Part B: CMS and CMAQ Data for PEDESTRIAN Projects

The applicant should complete **only one** Part B sheet for the project. If the project requested is not one of the modes cited above, the applicant does not need to complete Part B or Part C of the form.

This particular sheet should only be completed for bicycle projects. Applicants will need to complete Part C of the form for bicycle projects.

Section One: Congestion Management System and CMAQ Data

Please complete the following information for all street projects. The information used in this section is used to calculate CMS scores.

1. Current Average Daily Traffic (ADT) on the Roadway Adjacent to the Facility or Nearest Parallel Roadway (Please <u>do not</u> Use ADT from a Freeway or Controlled Access Facility):	7. Name of the Roadway Section Used for the ADT Estimate:	8. Type of Roadway Used for ADT Estimate (Check Only One): <input type="checkbox"/> Arterial > 4 legs (e.g. Grand) <input type="checkbox"/> Arterial Street <input type="checkbox"/> Collector Street <input type="checkbox"/> Other
4. Number of Through Lanes on the Facility Used to Estimate ADT for Item 1 (Do <u>not</u> include turning lanes):	5. Length of the Facility (in miles):	
6. Township Coordinate of the Midpoint of the Bicycle Facility:	7. Range Coordinate of the Midpoint of the Bicycle Facility:	8. Section Coordinate of the Midpoint of the Bicycle Facility:
9. If the Facility is on a Roadway, Does the Roadway have a Curb and Gutter <input type="checkbox"/> Yes <input type="checkbox"/> No		
10. Does the Project Include Pedestrian Facility Improvements: <input type="checkbox"/> Yes <input type="checkbox"/> No		

Transportation Improvement Program (TIP) Highway Project Application Form
Part B: CMS and CMAQ Data for BICYCLE Projects

<p>11. Bicycle Improvements (Check Only One):</p> <p><input type="checkbox"/> Adds Striped Bicycle Lane</p> <p><input type="checkbox"/> Adds Multi-Use Path</p> <p><input type="checkbox"/> Adds Bicycle Grade-Separation</p> <p><input type="checkbox"/> Other Bicycle Improvement</p>	<p>12. Is the bicycle improvement on an adopted local or regional bicycle plan. If yes, please identify the plan:</p>
<p>13. Number of Activity Centers Within ¼ Miles of the Planned Bicycle Facility:</p>	<p>14. Number of Activity Centers Within ½ Miles of the Planned Bicycle Facility:</p>
<p>15. If the Planned Bicycle Facility Includes a Grade-Separation (e.g. Overpass, Underpass), Indicate the Total Length in Miles of the Facilities Connected:</p>	
<p>16. Management System (Please check only <u>one</u> box)</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><input type="checkbox"/> Congestion Management System (CMS)</p> <p><input type="checkbox"/> Bridge Management System (BMS)</p> <p><input type="checkbox"/> Pavement Management System (PMS)</p> <p><input type="checkbox"/> Public Transportation Management System (PTMS)</p> </div> <div style="width: 45%;"> <p><input type="checkbox"/> Safety Management System (SMS)</p> <p><input type="checkbox"/> Intermodal Management System (IMS)</p> <p><input type="checkbox"/> Other</p> </div> </div>	
<p>17. Please identify the priority the agency places on this project. If for example, the agency is submitting three requests for bicycle projects and this is the agency's highest priority, then a "1" should be entered. Each priority entered should be unique – e.g. no two requests for bicycle projects should have the same priority.</p>	

Transportation Improvement Program (TIP) Highway Project Application Form

Part B: CMS and CMAQ Data for PEDESTRIAN Projects

General Instructions: All applicants must complete the cover sheet and Part A of the application form for federal Surface Transportation Program (MAG STP) and Congestion Mitigation Air Quality (CMAQ) funding available through MAG.

In Part B, the applicant provides data necessary for MAG staff to calculate Congestion Management System (CMS) and CMAQ scores for projects. This data varies for each mode of transportation, so separate sheets are provided for freeway, street, Intelligent Transportation System (ITS), bicycle and pedestrian projects. These sheets are identified as:

- Part B: CMS and CMAQ Data for FREEWAY Projects
- Part B: CMS and CMAQ Data for STREET Projects
- Part B: CMS and CMAQ Data for ITS Projects
- Part B: CMS and CMAQ Data for BICYCLE Projects
- Part B: CMS and CMAQ Data for PEDESTRIAN Projects

The applicant should complete **only one** Part B sheet for the project. If the project requested is not one of the modes cited above, the applicant does not need to complete Part B or Part C of the form.

This particular sheet should only be completed for pedestrian projects. Applicants will need to complete Part C of the form for pedestrian projects.

Section One: Congestion Management System and CMAQ Data

Please complete the following information for all street projects. The information used in this section is used to calculate CMS scores.

1. Current Average Daily Traffic (ADT) on the Roadway Adjacent to the Facility or Nearest Parallel Roadway (Please <u>do not</u> Use ADT from a Freeway or Controlled Access Facility):	9. Name of the Roadway Section Used for the ADT Estimate:	10. Type of Roadway Used for ADT Estimate (Check Only One): <input type="checkbox"/> Arterial > 4 legs (e.g. Grand) <input type="checkbox"/> Arterial Street <input type="checkbox"/> Collector Street <input type="checkbox"/> Other
4. Number of Through Lanes on the Facility Used to Estimate ADT for Item 1 (Do <u>not</u> include turning lanes):	5. Length of the Facility (in miles):	
6. Township Coordinate of the Midpoint of the Pedestrian Facility:	7. Range Coordinate of the Midpoint of the Pedestrian Facility:	8. Section Coordinate of the Midpoint of the Pedestrian Facility:
9. If the Facility is on a Roadway, Does the Roadway have a Curb and Gutter		<input type="checkbox"/> Yes <input type="checkbox"/> No
10. Does the Project Include Pedestrian Facility Improvements:		<input type="checkbox"/> Yes <input type="checkbox"/> No

Transportation Improvement Program (TIP) Highway Project Application Form
Part B: CMS and CMAQ Data for PEDESTRIAN Projects

11. Number of Activity Centers Within ¼ Miles of the Planned Pedestrian Facility:

12. Number of Activity Centers Within ½ Miles of the Planned Pedestrian Facility:

13. If the Planned Pedestrian Facility Includes a Grade-Separation (e.g. Overpass, Underpass), Indicate the Total Length in Miles of the Facilities Connected:

14. Management System (Please check only one box)

☐ Congestion Management System (CMS)

☐ Safety Management System (SMS)

☐ Bridge Management System (BMS)

☐ Intermodal Management System (IMS)

☐ Pavement Management System (PMS)

☐ Other

☐ Public Transportation Management System (PTMS)

15. Please identify the priority the agency places on this project. If for example, the agency is submitting three requests for pedestrian projects and this is the agency's highest priority, then a "1" should be entered. Each priority entered should be unique – e.g. no two requests for pedestrian projects should have the same priority.

Transportation Improvement Program (TIP) Highway Project Application Form

Part C: MAG Technical Committee Additional Information for BICYCLE Projects

General Instructions: This supplemental information is required for bicycle and shared-use path/trail projects as shown by action by the MAG Regional Bicycle Task Force on June 19, 2001. If you have any questions, please contact Dawn M. Coomer at the MAG office at (602) 254-6300, or send e-mail to dcoomer@mag.maricopa.gov.

All bicycle project requests should also include the coversheet, Part A and Part B of the Transportation Improvement (TIP) Highway Project Application Form.

MATCH REQUIREMENTS FOR BICYCLE AND SHARED-USE PATH/TRAIL PROJECTS

Once selected, projects must follow the National Environmental Policy Act (NEPA) process and the typical established Arizona Department of Transportation (ADOT) process for local government projects that include federal funding. The project development process can take up to 36 months. This includes creation of a design concept report (DCR) and various clearances. **When developing a funding estimate, be sure to consider the elements listed in Appendix A. Please do NOT completed Appendix A and submit it with your application.**

	Federal Amount Requested	Local Match
<input type="checkbox"/>	Up to \$500,000	5.7 % of the Total project Cost
<input type="checkbox"/>	\$500,001 to \$750,000	20 % of the Total Project Cost
<input type="checkbox"/>	Greater Than \$750,000	20% or more of the Total Cost – It is strongly recommended that the match exceed 20%.

The federal and local costs listed in Part A, items 5 and 7 of the form, **MUST** be in accord with the local match specified for the federal amount range indicated by your response to this question – e.g. if the federal amount is over \$500,000, the local match must equal at least 20 percent of the total project cost.

REGIONAL BICYCLE TASK FORCE RATING SYSTEM INFORMATION

Currently, the Regional Bicycle Task Force uses a formula to establish the priority for funding bicycle projects.

$$\text{Score} = P * (F + W + L + C + S)$$

For each of the following factors, please check the box next to the appropriate value.

Priority Factor (Check Only One)

- ☐ P = 3 for projects that include access to at least five local destinations, e.g. retail, medical, major employer (50+ employees), school, entertainment, restaurant, personal/family business, and church categories.
- ☐ P = 2.5 for project that include access to at least four local or regional destinations.
- ☐ P = 2.0 for projects that include access to at least three local destinations.
- ☐ P = 1.5 for projects that include access to at least two local destinations.
- ☐ P = 1.0 for projects that include access to at least one local destination.

Facility Type Factor (Check Only One)

- ☐ F = 5 for bike lanes, multi-use paths, or grade separations that provide access to local daily trip destinations.
- ☐ F = 4 for bike lanes, multi-use paths, or grade separations that provide access to a regional destination or for public bike parking facilities.
- ☐ F = 3 for edge line buffer zones 3 feet or more in width for at least 80% of the distance between arterial intersections.
- ☐ F = 2 for all other types of bikeways or other bicycle related projects.

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Part C: MAG Technical Committee Additional Information for BICYCLE Projects

Work Type Factor (Check Only One)

- ☐ W = 4 for providing access to local or regional destinations by a street widening project that results in adding a bike lane, construction of a multi-use path on acquired right-of-way, or construction of grade separations on acquired right-of-way.
- ☐ W = 3 for bike lane additions to existing streets by restriping of traffic lanes with lesser widths, widening of existing multi-use paths, or improvements to grade separations.
- ☐ W = 2 for upgrades or expansion of public bike parking facilities.

Length Factor (Check Only One)

- ☐ L = 1 for projects 1 mile or less in length.
- ☐ L = 1.5 for projects between 1 and 2 miles in length.
- ☐ L = 2 for projects between 2 and 3 miles in length.
- ☐ L = 2.5 for projects between 3 and 4 miles in length.
- ☐ L = 3 for projects 5 miles or more in length.

Connecting Factor (Check Only One)

- ☐ C = 3 for projects connecting segments of existing routes or projects that connect the bikeways of adjacent cities, towns, or County lands.
- ☐ C = 2 for projects providing direct connections from bikeways, through motor vehicle parking areas, to local or regional destinations.

Socioeconomic Factor (Check Only One)

- ☐ S = 3 for projects located substantially in an area with average household incomes of \$14,999 or less.
- ☐ S = 2 for projects located substantially in an area with average household incomes of \$15,000 to \$24,999.

LOCAL PLANS AND POLICIES

Please check the appropriate response to the following questions. Responses to these questions may be used by the Regional Bicycle Task Force in recommending projects to receive federal funds.

Does your jurisdiction have a bicycle plan that has been adopted by the City/Town Council?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
When approving development plans, do you require that bike lanes be placed on arterial streets?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
When approving development plans, do you require that bike lanes be placed on collector streets?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
When retrofitting existing roadways, do you require that bike lanes be placed on arterial streets?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
When retrofitting existing roadways, do you require that bike lanes be placed on collector streets?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Do you require that shared-use paths/trails be provided in new and/or retrofit developments?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Do you require bike parking in new and retrofit developments?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Transportation Improvement Program (TIP) Highway Project Application Form
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DETAILED PROJECT DESCRIPTION

On an attached sheet, describe the project or program in 150 words or less. Responses could address the following:

- What problems are being addressed?
- What mobility and access opportunities are provided?
- How will this project/program benefit low-income, minority, elderly or physically challenged populations?
- How will this project/program improve air quality or relieve congestion?
- How does this project/program meet the goals and objectives in adopted local and regional plans and programs?

A list of principles have been developed to assist in qualitative evaluation of bicycle projects eligible for federal transportation funds. These principles are listed on the following page

MAG Regional Bicycle Task Force
Congestion Management System Principles

(adopted as part of the 1999 Update of the MAG Regional Bicycle Plan)

1. The great majority of people who own bikes (95%) are either community cyclists or child cyclists who prefer to ride on streets without much automobile traffic, on bike lanes, or on paths completely separated from streets. This data should be used to **develop bike systems to benefit the greatest number of bicyclists.**
2. Most bike owners ride for short distances averaging only two miles in length. Half of all daily travel trips - whether by car or by bike - are under three miles in length (almost 40% are under two miles in length). MAG should **promote the use of bicycles for making short, daily trips.**
3. Most bike trips are taken for social/recreational purposes (55%), personal/family business purposes (20%), and the rest for trips to school, church or for "civic" purposes. MAG should **promote the use of bicycles, rather than the using a motor vehicle, for daily trip purposes.**
4. Many destinations for daily trip purposes are located on arterial streets. Therefore, it is necessary to develop bikeways on arterial streets and accessing arterial streets to attract bicycle owners to use bikes for daily, local trips. MAG should **develop a system of bikeways on arterial and collector streets and off-street pathways that provide comfortable and convenient access to arterial streets where many daily trip destinations are located.**
5. To promote the use of bikes for making local, daily trips, it will be necessary to **concurrently develop a system of bikeways and provide widely disseminated public information on the desirability of using bikes** (reducing congestion and bettering air quality) and the correct way to ride a bike in traffic situations (for convenience and safety).
6. Support projects that demonstrate integration with other alternative modes, like transit and pedestrian facilities, as a way to maximize and complement travel potential of bicyclists.
7. Through transportation projects, promote transit, bike and pedestrian oriented land use and urban design.

<p>Transportation Improvement Program (TIP) Highway Project Application Form Part C: MAG Technical Committee Additional Information for <u>BICYCLE Projects</u></p>

<p>MAPS AND PHOTOS</p>

Please attach:

At least two photos of the existing project site to help establish the current conditions of the project area site.
Map which clearly shows the project area boundaries, adjacent land uses, and connectivity of the proposed project to the surrounding area.

Optional Items:

Site plan
Copy of relevant pages of local planning and design documents
Artistic rendering
Newspaper articles
Community support letters

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APPENDIX A: TRAIL DEVELOPMENT COST ESTIMATE

This information is taken from Appendix B, Path/Trail Planning Toolbox, from the MAG Regional Off-Street System (ROSS) Plan, adopted February 28, 2001 by the Regional Council Original information from Charles A. Flink, ASLA, President of Greenways Incorporated. From the Maricopa Association of Governments (MAG) Bicycling and Walking into the 21st Century Conference Series, Creating an Off-Street Path System in an Urban Environment, conducted on April 25-26, 2000 at the Tempe Mission Palms.

Background and Instructions

The following cost estimate form should be filled in using the most up-to-date and accurate cost data available. Upon completing this form, evaluate the total costs against the available budget and determine if the project can be developed in one or several phases.

Name of Project:	
PHASE I: TRAIL PLANNING	
Administrative Costs	\$
Publicity Materials (brochures, newsletters, advertising)	\$
Information, Data and Materials (documents, maps, aerial photos, etc.)	\$
Planning Consultant Fees	\$
Public Meeting Costs (rental fees, duplication costs, food)	\$
Utility Investigative Fees (electric, gas, fiber optic, cable television, other)	\$
Total Costs for Planning Phase	\$
PHASE II: PATH/TRAIL DESIGN	
Land Surveyor Fees	\$
Testing Fees (soils, groundwater, vegetation, etc.)	\$
Design Consultant Fees (landscape architect, engineer, other)	\$
Total Costs of Design Phase	\$
PHASE III: PATH/TRAIL CONSTRUCTION	
A. ADMINISTRATIVE	
Permit Fees (USACE 404, Water Management District, other)	\$
Testing Fees (concrete, other)	\$
Construction Management Fees (Landscape architect, engineer, other)	\$
B. SITE PREPARATION	
Tools/equipment	\$
Staking path/trail layout	\$
Clearing and grubbing vegetation	\$
Stripping/stockpiling topsoil	\$
Excavation and rough grading	\$
C. DRAINAGE STRUCTURES	
Waterbars	\$
French Drains	\$

APPENDIX A: TRAIL DEVELOPMENT COST ESTIMATE (Continued)

Culverts	\$
Diversions	\$
D. EROSION CONTROL STRUCTURES	
Silt fence	\$
Sediment basin	\$
Retaining walls	\$
E. BRIDGES AND BOARDWALKS	
Prefabricated Bridges: Number required:	\$
Wooden Bridges: Number required:	\$
Retrofitting existing bridges (railroad, highway, roadway)	\$
Observation decks	\$
F. PATH/TRAIL TREAD DEVELOPMENT	
Sub-grade Preparation (subbase, geotextile fabric, other)	\$
Woodchip surface	\$
Gravel, Limestone, shale surface	\$
Concrete Surface	\$
Soil cement surface	\$
Asphalt surface	\$
G. PATH/TRAIL HEAD DEVELOPMENT	
Entry/access road	\$
Parking lot	\$
Connector path/trail	\$
Landscaping	\$
H. LANDSCAPE RESTORATION	
Topsoil	\$
Permanent seeding/sodding	\$
Fertilizer	\$
Landscape Plants (trees, shrubs, groundcover)	\$
I. SITE FURNISHINGS	
Trail Signage	\$
Safety and Security Structures (bollards, gates, stiles, other)	\$
Fencing	\$
Path/Trail Benches	\$
Picnic Tables	\$

APPENDIX A: TRAIL DEVELOPMENT COST ESTIMATE (Continued)

Trash Receptacles	\$
Bike racks	\$
Restrooms	\$
Drinking Fountains	\$
Path/Trail Lighting	\$
Cellular Phones	\$
Other	\$
Total Costs for Construction Phase	\$
PHASE IV: MAINTENANCE AND MANAGEMENT	
Drainage and storm channel maintenance	\$
Sweeping/blowing debris off path/trail head	\$
Pick-up and removal of trash	\$
Weed control and vegetation management	\$
Mowing of 3 foot grass safe zone	\$
Minor repairs	\$
Park Ranger Patrol	\$
Maintenance supplies	\$
Equipment fuel and repairs	\$
Total Maintenance and Management Phase	\$

APPENDIX A: TRAIL DEVELOPMENT COST ESTIMATE (Continued)

TRAIL DEVELOPMENT CHECKLIST

Name of Project		
ADMINISTRATIVE		
<input type="checkbox"/>	Person Who Is Overseeing the Project:	
<input type="checkbox"/>	Designer/ Landscape Architect/ Engineer	
<input type="checkbox"/>	Project Manager/ Budget Control Officer	
<input type="checkbox"/>	Public Information/ Promotional Contact	
PLANNING TASKS		
Tools Needed to Complete Work:		
<input type="checkbox"/>	Mapping (USGS Topo, aerials, 1" to 200' optimal scale.	
<input type="checkbox"/>	Land Use information surrounding path/trail corridor defined.	
<input type="checkbox"/>	Land Ownership identified, property owners notified.	
<input type="checkbox"/>	Transportation plans for surrounding area (including widening and surfacing).	
<input type="checkbox"/>	Previous work on corridor.	
<input type="checkbox"/>	Location and approximate depth of utilities.	
Soils, geologic data identified by:		
Environmental Assessments by:		
Work Items:		
<input type="checkbox"/>	Define path/trail corridor on appropriate scale maps, define points of travel origin and destination, linkage to other paths/trails, all access points including: multi-modal (auto corridor to path/trail corridor, parking and unloading); neighborhood/local; and interconnected (path/trail system to path/trail system).	
<input type="checkbox"/>	Identify all potential user groups (may include commuters, cyclists, walkers, joggers, equestrians, persons with disabilities or others).	
<input type="checkbox"/>	Define path/trail theme (may include transportation, recreation, educational resource, interpretive, special use, or a combination of these).	
<input type="checkbox"/>	Determine desired path/trail design parameters based on state or national standards: path/trail layout configuration, tread width, surface type, travel speed, line of sight, other facilities such as bridges, design weight limits/capacity.	
<input type="checkbox"/>	Define need for path/trail furnishings/accessories: rest areas, benches, picnic areas, interpretive elements, information/safety signage, toilets, drinking fountains, trash receptacles, lighting, etc.	
<input type="checkbox"/>	Define physical condition of landscape (forested, semi-wooded, open, desert) topography, intersections, conflicts with urban elements, opportunities for path/trail development, construction access.	
<input type="checkbox"/>	Determine location of utilities within corridor: overhead or underground electricity, gas, water, sewer, fiber optic, cable television, other.	
<input type="checkbox"/>	Define location of unique environmental conditions: unstable or erosive soils, sensitive animal habitat, presence of wetlands, cultural features, vegetation, hazardous materials, flooding, wildfire/forest fire hazards, cross drainage patterns, other significant natural features.	

APPENDIX A: TRAIL DEVELOPMENT COST ESTIMATE (Continued)

<input type="checkbox"/>	Describe aesthetic condition of landscape: viewsheds, areas of light and dark, open and closed landscapes, climate effects (sun and wind exposure), odor and noise, potential user comfort.
<input type="checkbox"/>	Determine permits required for development: federal, state or local environmental, Section 404 Clean Water Act, state and federal highway encroachments, roadway or railroad crossings/underpasses/overpasses, utility crossings, FEMA, clearing and grading, sediment and erosion control, other.
<input type="checkbox"/>	Define safety and security issues: attractive nuisances, wildlife, insects, steep grades, drop-offs, use conflicts, blind spots, crime, security problems, access for rescue or maintenance crews, vegetation management.
<input type="checkbox"/>	Identify development/management entity:
<input type="checkbox"/>	Define funding issues relevant to design development: project costs, phasing and priorities, feasibility.
<input type="checkbox"/>	Determine appropriate level of citizen participation in planning and design of the path/trail: create a citizens advisory committee to champion the plan.
<input type="checkbox"/>	Hold formal public information meetings to describe planning, design and development process for the path/trail.
PRELIMINARY DESIGN TASKS	
<input type="checkbox"/>	Complete field survey of all property boundaries, identify ownership through location of iron pins or other property markers, define cross access easements, utility easement or other property encumbrances. Plot all information on maps.
<input type="checkbox"/>	Complete soils testing to determine bearing capacity of soils for multi-use hard surfaced paths and structures such as bridges. Define location of unsuitable soils.
<input type="checkbox"/>	Prepare a path/trail layout on a base map and complete a field layout of the proposed path/trail route on-site using surveyors flagging tape and stakes to illustrate location.
<input type="checkbox"/>	Complete design details for path/trail cross section: reference the American Association of State Highway and Transportation Officials (AASHTO) Guide for the Development of Bicycle Facilities, define sub-grade according to bearing strength, stability, firmness, behavior when wet, frost line, presence of foreign material (such as railroad ballast); determine appropriate use of geotextile fabrics and soil sterility; define required thickness of subbase material with assistance from engineer; determine appropriate compaction rate; define the type and thickness of path/trail surface appropriate to serve identified user groups.
<input type="checkbox"/>	Complete design details for bridges, including footings, deck surface, railing height and opening between rails; retaining walls; decking, boardwalks or wildlife observation platforms.
<input type="checkbox"/>	Complete layout plans and design details for signage: reference the Manual on Uniform Traffic Control Devices for bikeways, Americans with Disabilities Act, and local sign ordinances to ensure compliance with appropriate regulations.
<input type="checkbox"/>	Define site furnishings appropriate for project development, including: location and type of trash receptacles, bench seating, lighting, telephones, restrooms, drinking fountains, mileage markers, information kiosks, etc.
<input type="checkbox"/>	Determine the location and type of security measures for the trail, including fencing, gates, bollards, emergency telephones, street signs, etc.
<input type="checkbox"/>	Prepare a landscape plan for the project that restores and re-vegetate areas disturbed or to be disturbed by path/trail development. Specify plant material type, size and height; soil preparation; watering or irrigation requirements; fertilizing schedule, etc.
<input type="checkbox"/>	Complete environmental permits for project and file with appropriate local, state and federal agencies.
<input type="checkbox"/>	Obtain local and state review of Preliminary Design Work to ensure compliance with comprehensive land use, recreation, transportation, historic preservation, and water management plans.
<input type="checkbox"/>	Submit preliminary path/trail drawings to utility companies, local transportation departments and other state and federal agencies for review and comment.

APPENDIX A: TRAIL DEVELOPMENT COST ESTIMATE (Continued)

<input type="checkbox"/>	Prepare a sedimentation and erosion control plan for the entire project, submit to appropriate review agency for approval of grading permit.
<input type="checkbox"/>	Prepare preliminary design development cost estimates for the project.
CONSTRUCTION DRAWINGS AND BID DOCUMENTS	
Work Items:	
<input type="checkbox"/>	Prepare plan sheets that illustrate the location of the path/trail, and all path/trail facilities within the property boundaries defined. Use engineering plan and profile sheets to illustrate the horizontal and vertical position of the trail in the natural landscape. Prepare Cover sheet with index to drawings and general notes; grading plan; landscape plan; erosion control plan; and other plan sheets as project requires.
<input type="checkbox"/>	Prepare necessary detail sheets to illustrate important features of trail facilities at a scale suitable for describing the intricate relationships, material preferences, methods of construction or installation, and other relevant specifications.
<input type="checkbox"/>	Prepare Technical Specifications that describe the methods, materials and procedures for constructing, fabricating and installing all path/trail facilities. Typical component specifications would include: vegetation clearing and grubbing, excavation, site preparation, backfill, drainage, geotextile fabric, subbase, surfacing, erosion control, landscaping, concrete work, finish carpentry, landscaping and structural work.
<input type="checkbox"/>	Prepare General Conditions of the construction contract.
<input type="checkbox"/>	Prepare Bid Documents for contract construction: Invitation to Bidders, Bid Proposal Form, Bid Bond, Notice of Award, Performance Bond, Labor and Materials Bond, Notice to Proceed, Notice of Final Acceptance, Final Receipt.
<input type="checkbox"/>	Develop final cost estimates for project development.
<input type="checkbox"/>	Submit final construction documents to local and state agencies for review and approval.
<input type="checkbox"/>	Prepare final survey plats and legal descriptions for trail easements.

Transportation Improvement Program (TIP) Highway Project Application Form

Part C: MAG Technical Committee Additional Information for PEDESTRIAN Projects

General Instructions: This part is required for all pedestrian projects as shown by action the MAG Pedestrian Working Group on April 25, 2001. If you have any questions, please contact Dawn M. Coomer at the MAG office at (602) 254-6300, or send e-mail to dcoomer@mag.maricopa.gov.

All pedestrian project requests should also include the coversheet, Part A and Part B of the Transportation Improvement (TIP) Highway Project Application Form.

Section One: Requirements for Pedestrian Projects

Adherence to Design Policies: All pedestrian projects approved for federal funding will adhere to the design policies in the MAG *Pedestrian Area Policies and Design Guidelines* (adopted by the MAG Regional Council in 1995) and the MAG *Pedestrian Plan 2000* (adopted by the MAG Regional Council in December, 1999). Copies of these documents are available by contacting Dawn M. Coomer, MAG Multi-Modal Program Manager, at the MAG office: (602) 254-6300.

Section Two: Detailed Project Description

On an attached sheet, describe the project or program in 150 words or less. Responses could address the following:

- What problems are being addressed?
- What mobility and access opportunities are provided?
- How will this project/program benefit low-income, minority, elderly or physically challenged populations?
- How will this project/program improve air quality or relieve congestion?
- How does this project/program meet the goals and objectives in adopted local and regional plans and programs?

Section Three: Support by Adopted Regional Plans

On an attached sheet, please answer the following questions. Please limit your response to one page.

- How does this project meet the policies and design guidelines outlined in the MAG *Pedestrian Area Policies and Design Guidelines*? Specifically identify the policies/guidelines being addressed by the proposed project.
- How does the project meet the goals of the MAG *Pedestrian Plan 2000*? Specifically identify the goals/objectives being addressed by the proposed project.

Section Four: Additional Information

Required Items:

- At least two photos of the existing project site to help establish the current conditions of the project area site.
- Map which clearly shows the project area boundaries, adjacent land uses, and connectivity of the proposed project to existing and planned pedestrian areas/facilities.

Optional Items:

- Site Plan
- Artistic Rendering
- Copy of Relevant Pages of Local Planning and Design Documents
- Community Support
- Letters Newspaper Articles

<p>Transportation Improvement Program (TIP) Highway Project Application Form</p> <p>Part C: MAG Technical Committee Additional Information for <u>PEDESTRIAN Projects</u></p>

<p>Section Six: For Staff Use Only</p>

Intra-Jurisdictional Composite Pedestrian Trip Activity Ranking (see MAG <i>Pedestrian Plan 2000</i>):	
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Regional Composite Pedestrian Trip Activity Ranking (see MAG <i>Pedestrian Plan 2000</i>):	
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